



FORMWORK and SCAFFOLDING



# CATALOG 2019



## **CATALOGUE , 2019 E I**

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### **Important notes :**

Always observe all relevant safety regulations  
applying to the use of our products in the country  
in which products are used. The photographs in  
this catalogue show the current situation at the  
sites which may not always be complete from the  
safety point of view as might be the case with the  
drawings.

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From the way where we set off our journey in 1989 with a 200 m<sup>2</sup> of workshop we continue to progress as "one of Turkey's leading brands" today with 2 modern facilities of totally 36.900 m<sup>2</sup> land in Gebze and Duzce including 12.650 m<sup>2</sup> of indoor area and with a team of 250 people. Additionally, we are moving towards the goal of becoming a global brand with our exports to more than 40 countries, including Western European countries such as Switzerland, United Kingdom and Italy, where the quality and occupational safety standards are very high, and with our successful projects we have completed in those countries so far.

Formwork and scaffolding systems are a deep area of expertise. For this reason, our customers need to have a specialist solution partner who will lead them accurately by taking part in every step of the job with them, provide all the services from design to production, logistics, application project, field supervision service and preparation for next project, starting from consultancy service.

In order to respond to this need, we accompany our customers during their daily operations, observe what challenges they face at the construction site and focus on finding solutions they will benefit. We design systems, which are simple to be used in the field, save time, improve occupational safety levels, strong enough to be used a hundred times and economical at the same time, and manufacture these products at high quality standards in our modern facilities using advanced automation technologies.

In today's competitive conditions, we know very well that the right design and production quality products are not enough for customer satisfaction alone but, in addition to quality products, we are aware that the technical support services provided during the project are the key to success. In order to help our customers use the products in a correct, safe and efficient way, we provide them with application project and field supervision services. Thus, we do not only increase the satisfaction level of our customers, but also continuously improve our products and services by taking advantage of the experience we gain in the field of use.

We believe that the most important value of a firm is its qualified human resources. What make İNTEK successful are our employees who have adopted the basic principles in every way, their performance and competence and these are the biggest capital of our company. In this booklet, you can find general information about our formwork and scaffolding systems in our product range.

Furthermore; we proudly offer some of our reference projects to your information which have undertaken both in Turkey and in the World.





## MARKETING AND SALES

INTEK sales engineers who have extensive knowledge and experience in formwork and scaffolding systems, are always ready to serve you wherever you are. Our engineers will first discuss with you about formwork system alternatives, the necessary formwork stock, formwork circulation periods, steps of pouring concrete and all other special details about your project. Our engineers will then offer the most economic and efficient solution for your requirements.



## PROJECT AND DESIGN

Drawing formwork application projects, checking formwork circulation steps and calculating loads are performed by our engineers and technicians by means of special software programs. During the adaptation of your formwork stocks to your new project, our project department will assist you, whether your stocks are supplied by us or other companies.



## AFTER-SALES SUPERVISION

Formwork engineering is a complete package containing numerous interconnected services and after-sales service is one of the most important part of this package. Our supervisors who have a lot of site experience and are specialized at formwork and scaffolding systems are at your service whenever you need them and wherever your site is.



## MILESTONES

**FIRST EXPORT**

Completion of first export to Ukraine.

**RENTAL PARK**

Establishment of rental park and start of rental business.

**FIRST FAIR**

Attended to the fair for the first time.



1989

1996

2005

2009

1992

2005

2006

**FIRST PRODUCTION**

Start of production in İmes İstanbul in a 200 sqm closed area.

**GEBZE FACTORY**

Movement of production and head office to Gebze factory.

**FIRST SUBSIDIARY**

Establishment of Ukraine office.

**PANEMAX**

Production of PANEMAX crane-handled framed panel formwork.



### DÜZCE FACTORY

Production in Düzce factory.



### RT PROTECTION SYSTEM

Production of RT protection system.



### SUCCESS

Two awards from IDDMID at export category.



2010

2011

2013

2015

2015

2016



### PAINTING

Establishment of sandblasting and powder coating system.



### GCS GUIDED CLIMBING SYSTEM

Production of GCS GUIDED CLIMBING system.



### HYDRAULIC CLIMBING

Production of Hydraulic climbing system.





Gebze Head Office





We are expanding our rental park each passing day, which consists of a wide range of products from foundation formwork to scaffolding, from wind and protection curtains to work platforms, in order to meet the high demands of our customers.





Düzce Factory



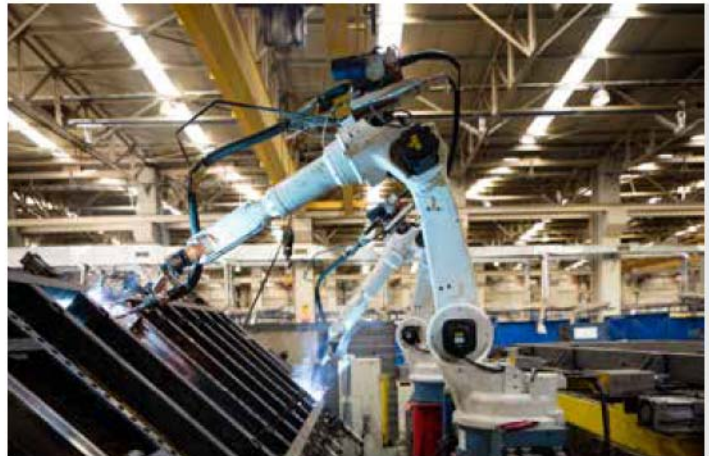






While we increase the level of industrialization in our customers' sites with innovative designs, we use modern production techniques based on automation which minimize human error in our own facilities with the same mentality. Thus, we increase efficiency and quality and reduce costs.











# APPLICATIONS

HIGH RISE BUILDINGS

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RESIDENTIAL, BUSINESS  
CENTER, HOTEL and HOSPITAL

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CULTURAL and PUBLIC  
BUILDINGS

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INDUSTRIAL BUILDINGS

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STADIUMS

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TRANSPORTATION BUILDINGS

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ROAD and BRIDGE PROJECTS

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WATER RETAINING STRUCTURES

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Maltepe Piazza Project, which is situated on a 42 thousand square meter plot of land Ronensans Real Estate Investment purchased from the tender of İller Bankası in 2013 and has a construction area of 267.517 m<sup>2</sup>, consists of a 29-storey residential block, a 21-storey office block, a 4-storey car park and a 5-storey shopping mall. The project includes 220 offices, 230 residences, 160 stores and 27 restaurants.

For 29 storey housing block, two full, one half sets (2.5 sets) of 2.200 m<sup>2</sup> HD 150 system floor formwork (scaffolding application, H20 over H20) were supplied for normal floor tiles with a height of 3.50 m. ½ set of 530 m<sup>2</sup> PANEMAX wall-column formwork was given for normal columns and curtains.

For a 21-storey office block, two full, one half sets (2.5 sets) of 3.950 m<sup>2</sup> HD 150 system floor molds (Table formwork, H20 over H20) were supplied for normal floor tiles with a height of 4.00 m. For normal floor columns and curtains, ½ set of 1.293 m<sup>2</sup> PANEMAX wall-column formwork is given. The flat columns turned into a circular column as the building rose and the diameters were reduced on all four floors. A total of 15 sets of Ø70 - Ø80 - Ø100 Ø120 - Ø130 cm diameter SCS system circular column formworks were given.

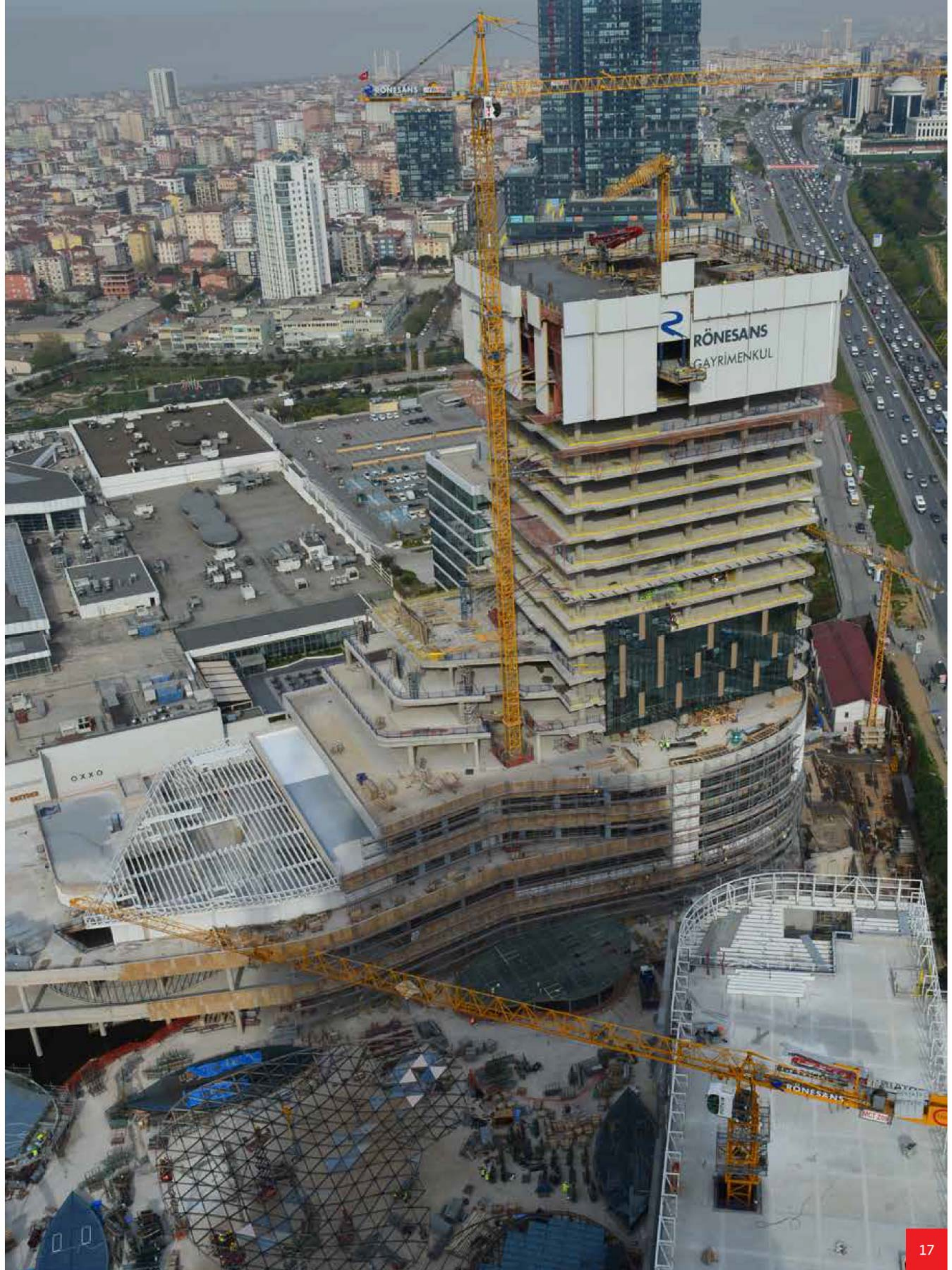
Furthermore; additional slab and curtain formworks were provided as rental for floors of 6,50 and 8,00 m height which were located at lower floors of residential and office blocks.

For AVM block, 14.000 m<sup>2</sup> HD 150 floor slab formwork (scaffolding application, H20 above H20), 468 m<sup>2</sup> of PANEMAX wall formwork, 530 m<sup>2</sup> of İNTEVA wall-column formwork systems were given.

"Wind Protection Curtains" were used in the 29-storey residential and 21-storey office blocks to provide maximum occupational safety and to cover the building 3.5 times with the aim of ensuring efficiency and protection from the wind.





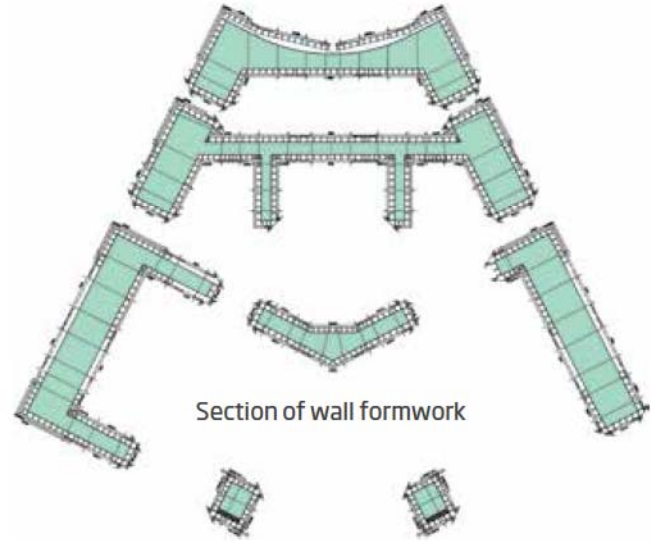


RÖNESANS  
GAYRİMENKUL



Varyap - Meridian Project is one of the gorgeous project in Turkey. It won four gold medals at the International Property Awards 2009 competition which is known as "Oscars of Real Estates".

The project whose construction area is 374.000 m<sup>2</sup> in total consists of five tower blocks, whose numbers of floor vary from 20 to 61 storeys, and three low-rise commercial block. Within the scope of the project, there are 1500 housings, a business center with 50.000 m<sup>2</sup> of rental space, a 20.000 m<sup>2</sup> of office building, a 5 star hotel whose operation will be given to an international brand, a convention center and trade blocs.



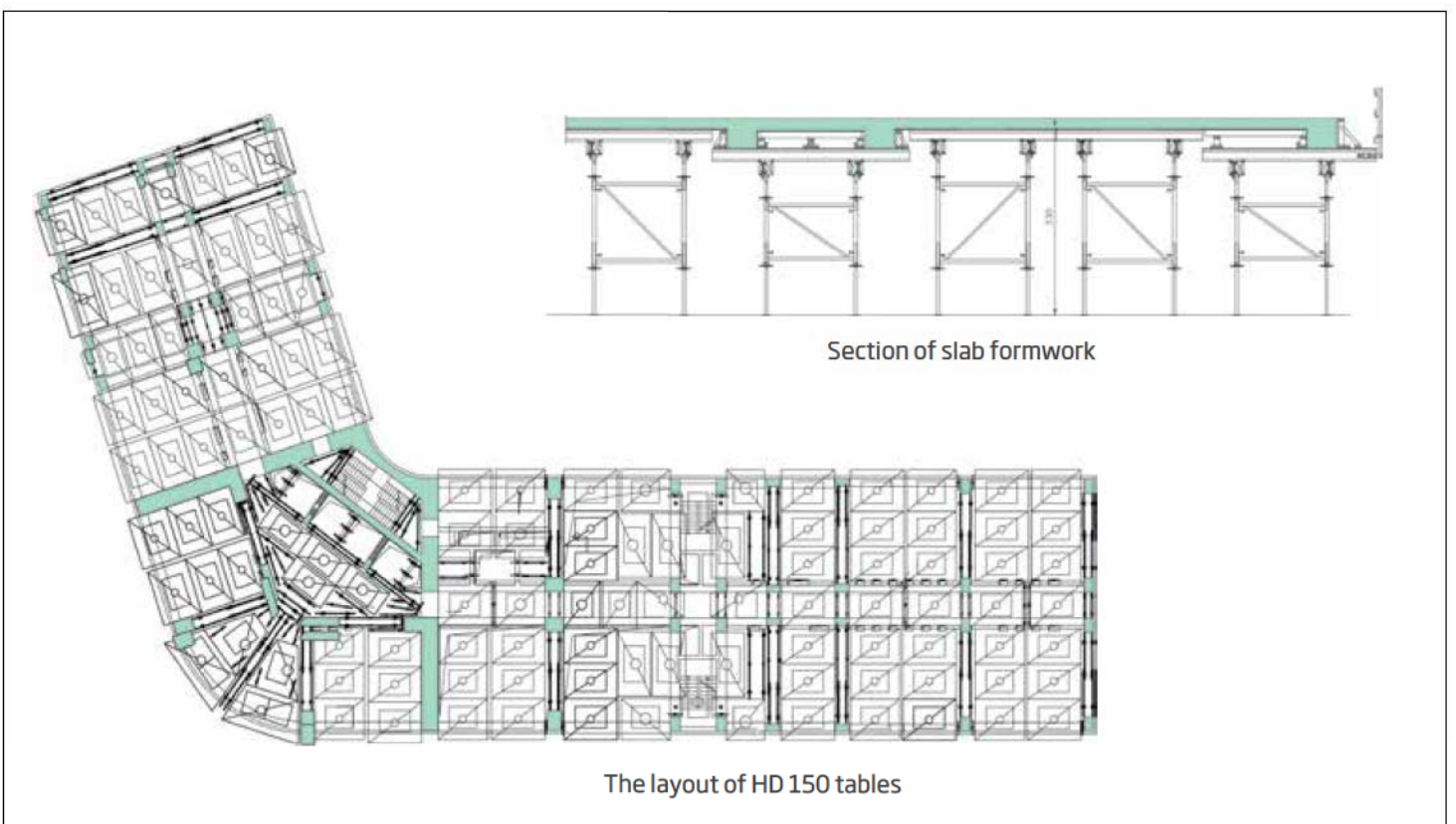
The highest block of the project is A Block with a total of 61-storey. The core wall of this block was constructed with İNTEVA large area panel system. The core thickness of block was preliminarily 150 cm and then it changed to 130 cm and 100 cm respectively as the elevation of the building got higher. With successful designing of İNTEK Formwork project department, İNTEVA system was adapted to everchanging wall thickness. Curvilinear surfaces of the wall were sorted out with template beams which were interposed between plywood and H20 beams. After the first few floors; formwork and concrete manufacturing of core wall with 470 m<sup>2</sup> area was completed in 1 day.







“HD 150 Tableform System” was used on slab formwork. If a project is appropriate as a form, there are a large number of floors identically repeating the same and tower crane has enough time, tableform system is a distinguishing solution. This system provides not only enormous labour productivity but also tremendous economical benefit by preventing damage of formwork material.





Projected on 39.000 m<sup>2</sup> of land, 42 Maslak Project has a construction area of 250.000 m<sup>2</sup> in total with its 442 residence flat and 16 tower penthouse which have 90.000 m<sup>2</sup> construction area in two 42-storey towers, a 5 star hotel with 20.000 m<sup>2</sup> of area, 48.000 m<sup>2</sup> on sale A++ horizontal office area, shopping center and living spaces of 32.000 m<sup>2</sup> and parking area of 60.000 m<sup>2</sup>.

İNTEK Formwork systems, used in the project, and quantities are as follows:

For typical floors of both 42-storey towers (Tower A and Tower B);

Totally 6000 m<sup>2</sup> of slab formwork as two complete sets each within Tower A and B (HD 150 tableform system)

Totally 1500 m<sup>2</sup> of shaft wall formwork as one complete set each within Tower A and B (İNTEVA system)

Totally 26 sets of column formwork as 13 sets each within Tower A and B (İNTEVA system)

A complete set of shaft platform for shafts (SPL system)

A complete set of climbing brackets for outer wall and columns

With these amount of formworks, concreting of each floor at A Block which will be used as residences wholly and at B Block some parts of which was designed as hotel was completed in 7-8 days.

For parking area;

3000 m<sup>2</sup> of slab formwork (HD 150 tower system)

70 linear meter, - 490 m<sup>2</sup> of basement wall formwork (İNTEVA system)

14 sets of column formwork as 12 flat sets and 2 circular sets each (İNTEVA and SCS PNM systems)







The major part of slabs was statically sorted out with “coffered slab”. HD 150 slab table system is very useful in these types of slabs with a few beams. Tables are covered wholly with plywood. This method which was a little expensive as initial investment reaped a huge profit by the end of the project by developing both productivity and labour safety.





ATK Towers project spreads over a wide area along Moscow River at the intersection of Kutuzovsky Street and Third Freeway in west part of Moscow. The project is also near Moscow City district. The project has a construction area of 315.000 m<sup>2</sup> in total with 47-storey A block, 41-storey B block, 16-storey V block and underground parking areas of 3036 vehicle capacity in 5 basement floors.





At 47-storey A block, special application of PANEMAX system, "reducible shaft wall formwork", was used in core wall at type floors in a size of - 1.800 m<sup>2</sup>. The formwork installation time at core walls with an area of -1.200 m<sup>2</sup> in height of 360 cm reduced up to 4 days.





The business center which has a construction area of 155.000 m<sup>2</sup> in total consists of 2 blocks. One of the blocks is 10-storey and the other is 44-storey. As of formwork stock, 4.500 m<sup>2</sup> of HD 150 slab formwork, 950 m<sup>2</sup> of INTEVA wall formwork and 24 sets of various scale INTEVA adjustable column formwork were supplied.

The concrete of type floors of 44-storey building was poured in two stages leaving cold joints on slabs. This method provides important benefits in many aspects.

While slab formwork operation is performed on the one part of floor, wall-column formwork operation is done on the other part. In this way, while a slab operation is performed on each floor, the process of taking wall-column formwork down and up again to the floor is eliminated.

The principles of this project is to use 3 sets of half slab formwork instead of 2 sets of full slab formwork. In this way 6 days circulation speed was achieved for a slab area of 2800 m<sup>2</sup>.





Located nearby E5 road and on metro route in Kadikoy, Fikirtepe, Concord Istanbul project consists of 6 blocks, all of which are residences. %70 of the project, constructed on two parcels in 21500 m<sup>2</sup> of land and consisting of 1175 residence, was designed as green field and community facilities. On both parcels are one each of A,B and C blocks. The numbers of floors in blocks vary from 28 to 30 storeys, including basements and ground floors. PANEMAX panel formwork system was utilized on wall-column formwork. Slabs of Concord project was sorted out with two different systems. HD 150 tableform system was used on facade in terms of being both in circular form and aiming at providing labour safety for workers. In the inner parts of the building, the conventional slab formworks belonging to the company, Adakar, were used. Tableforms designed for facades were extracted as brackets from the building to outward for 60 cm and labour safety of workers on these brackets were ensured with table safety rail. Specified steel panels were manufactured for circular walls on exterior parts of building. In this way, saving is provided from labour and quality and labour safety was promoted. A tableform was devised in such a manner that it could be worked with two sets of slab formwork at three blocks simultaneously.





There are 1276 housings and 37 shops in the project consisting of totally three 30-storey towers (each of which has 6 basement, a ground and 24 typical floors) and platform part. Total construction area is 210.000 m<sup>2</sup>.

The tower blocks, which were set to be constructed in the first phase, were A and B blocks. After A block had been finalized, C block was constructed with the same formwork and shoring materials.

A set of slab formwork was supplied for A and B blocks each but wall-column formworks were used commonly by transferring them from one block to another.

Hydraulic protection systems was utilized on curvilinear parts of A and B blocks.

